

CLAIMS

1. A medical suturing tool comprising: an insertion puncture needle formed with an insertion hole from the proximal end to the distal end; a retrieval puncture needle disposed substantially in parallel with the insertion puncture needle at a predetermined distance therefrom; and a surgical suture extending from the proximal end of the insertion puncture needle through the distal end and then engaged with the distal end of the retrieval puncture needle via an engaging portion.

2. A tool according to Claim 1, comprising: an elongate opening provided on a surface of the insertion puncture needle opposing to the retrieval puncture needle in communication with the insertion hole; an engaging member being capable of moving in the insertion hole of the insertion puncture needle and, when having reached a predetermined position in the insertion hole, bending from the side of the upper end portion thereof to project outside from the elongate opening; and an engaging groove provided on a surface of the retrieval puncture needle opposing to the insertion puncture needle, wherein the surgical suture is connected to the lower end of the engaging member so that the suturing tool engages with the engaging groove on the retrieval puncture needle after having passed from the proximal end to the distal end of the insertion puncture needle

together with the engaging member.

3. A tool according to Claim 2, wherein the engaging groove includes a storage recess capable of accommodating the engaging member and an engaged portion with which the upper end portion of the engaging member can engage.

4. A tool according to Claim 2 or 3, wherein the upper end portion of the engaging member is thicker than the lower side portion of the engaging member, the elongate opening of the insertion puncture needle including a wide upper portion through which the upper end portion of the engaging member can pass and a narrow lower portion through which the upper end portion of the engaging member cannot pass and the lower side portion of the engaging member can pass, and the engaging groove of the retrieval puncture needle including a wide upper portion through which the upper end portion of the engaging member can enter and a narrow lower portion through which the upper end portion of the engaging member cannot pass but the lower side portion can enter.

5. A tool according to Claim 4, in which the upper end portion of the engaging member comprises a spherical body and the lower side portion of the engaging member comprises a rod member having smaller diameter than the spherical body.

6. A tool according to Claim 4 or 5, in which an engaging wall is provided at the lower portion of the surface of the wide upper portion of the engaging groove of the retrieval puncture needle so that the upper end portion of the engaging member is prevented from coming off toward the outside from the wide upper portion of the engaging groove.

7. A tool according to any one of Claims 2 to 6, in which the portion on the distal side of the insertion puncture needle with respect to the elongate opening and at least part of the retrieval puncture needle other than the portion where the engaging groove is formed is formed as a solid portion.

8. A tool according to any one of Claims 2 to 7, in which at least a portion of the insertion puncture needle where the elongate opening is formed and of at least a portion of the retrieval puncture needle where the engaging groove is formed are formed into an angular C-shape in lateral cross section, respectively, and are arranged so that the open sides are opposed to each other.

9. A tool according to any one of the preceding Claims, wherein needle points of the insertion puncture needle and the retrieval puncture needle are formed into a pointed conical

shape or a tapered thin blade shape.

10. A tool according to any one of the preceding Claims, wherein at least one of the insertion puncture needle and the retrieval puncture needle is formed by connecting a metal member and a resin member.

11. A tool according to any one of the preceding Claims, wherein the insertion puncture needle and the retrieval puncture needle are attached to a retaining member.

12. A tool according to Claim 11, in which the insertion puncture needle and the retrieval puncture needle are detachably attached to the retaining member.

13. A tool according to Claim 11 or 12, wherein the retaining member is constituted of a grip member to be held by a hand.

14. A tool according to any one of Claims 11 to 13, and including a positioning member for regulating the mounting positions of the insertion puncture needle and the retrieval puncture needle with respect to the retaining member.

15. A tool according to any one of Claims 11 to 14, in which a plurality of pairs of the insertion puncture needle and the

retrieval puncture needle are provided on the retaining member.

16. A medical suturing tool comprising an insertion puncture needle with a shaft having a proximal end and a pointed distal end, and a retrieval puncture needle with a shaft having a proximal end and a pointed distal end, and a retaining member that connects the respective proximal ends to retain the respective shafts parallel, the insertion needle shaft having an elongate aperture in its wall surface facing the retrieval needle shaft, the retrieval needle shaft having an aperture in its wall surface facing the insertion needle shaft, the respective shafts each defining a lumen from the proximal end to the respective aperture,

the insertion needle lumen containing an elongate lock part long enough to bridge across from the insertion needle aperture to the retrieval needle aperture the insertion needle lumen containing a suture which is attached to the lock part whereby pulling on the suture causes the lock part to emerge from the insertion needle lumen and extend across to the retrieval needle aperture so that, with withdrawal of the retrieval needle, the suture is advanced from the puncture made by the insertion needle to the puncture made by the retrieval needle.